

Table I-4
Comparison of Soil Associations Found in the Watershed (USDA, SCS Soil Survey of Lancaster County, NE)

Property		Soil Series					
		Pawnee	Wymore	Burchard	Nodaway	Zook	Kennebec
Parent Material		Formed in glacial till	Formed in loess	Formed in calcareous Kansas till	Alluvium, occurs in narrow drainage ways	Formed in alluvium along streams	Noncalcareous colluvial silty sediment from the dark upland soils
Drainage		Moderately drained on uplands, slow permeability	Moderately well drained on uplands, slow permeability	Well drained on uplands, slow permeability	Moderately well drained, moderately permeable	Deep, poorly drained, slow permeability	Deep, moderately well drained, moderate permeability
Surface Layer		Very dark brown clay loam, very dark grayish brown, weak fine granular structure, slightly hard	Very dark brown silty clay loam, weak fine granular structure, hard	Very dark brown clay loam, very dark grayish brown, weak fine granular structure, slightly hard	Very dark grayish brown silt loam, weak fine granular structure, slightly hard	Very dark gray silty clay loam, weak fine granular structure, slightly hard	Very dark gray silt loam, weak fine granular structure, hard, friable
Subsoil	Upper	Very dark grayish brown clay, moderate fine and medium subangular blocky structure	Dark brown silty clay, moderate fine and medium subgranular blocky structure, hard	Dark brown to brown clay loam moderate medium prismatic structure, hard	Very dark grayish brown silt loam, massive, slightly hard	Black silty clay loam, weak medium prismatic structure, hard	Very dark gray silt loam, weak fine and medium granular structure, hard, friable
	Middle	Dark grayish, moderate medium prismatic structure, very hard	Dark grayish brown silty clay, moderate medium prismatic structure, hard	Grayish brown clay loam, moderate medium prismatic structure, hard	Very dark grayish brown silt loam, massive, slightly hard	Black silty clay, moderate medium prismatic structure, very hard	Black silty clay loam, moderate medium subangular blocky structure, slightly hard
	Lower	Olive brown clay, moderate medium prismatic structure, very hard	Olive brown silty clay loam, weak medium prismatic structure, hard	Grayish brown clay loam, moderate medium prismatic structure, hard	Very dark grayish brown silt loam, massive, slightly hard	Black silty clay, moderate medium prismatic structure, very hard	Very dark gray silty clay loam, moderate coarse and medium subangular blocky structure, slightly hard
Underlying Material		Olive clay loam, weak coarse prismatic structure, slightly hard	Olive gray silty clay loam, slightly hard	Light brownish gray clay loam, weak coarse prismatic structure, hard	Very dark grayish brown silt loam, massive, slightly hard	Very dark gray silty clay, moderate medium prismatic structure, hard	Very dark silty clay loam, moderate coarse and medium subangular blocky structure.